PATENT COOPERATION TREATY

	From the INTERNA. JNAL BUREAU		
PCT	То:		
NOTIFICATION OF ELECTION	Assistant Commissioner for Patents		
(PCT Rule 61.2)	United States Patent and Trademark Office		
	Box PCT		
	ETATS-UNIS D'AMERIQUE		
Date of mailing (day/month/year)	in the constitution of the		
20 March 2000 (20.03.00)	In its capacity as elected Office		
International application No. PCT/DK99/00401	Applicant's or agent's file reference		
	United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE in its capacity as elected Office Applicant's or agent's file reference 19803003PCT Priority date (day/month/year) 14 July 1998 (14.07.98)		
International filing date (day/month/year) 13 July 1999 (13.07.99)			
Applicant	14 3diy 1336 (14.07.36)		
SØRENSEN, Elmgaard, Birger			
The designated Office is hereby notified of its election made	:		
X in the demand filed with the International Preliminary	Examining Authority on:		
11 February 20	00 (11.02.00)		
in a notice effecting later election filed with the International Bureau on:			

2. The election X was			
was not			
made before the expiration of 19 months from the priority da Rule 32.2(b).	ate or, where Rule 32 applies, within the time limit under		

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Aino Metcalfe
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38
Form PCT/IB/331 (July 1992)	2175600

PCT

NOTICE INFORMING THE APPLICANT OF THE **COMMUNICATION OF THE INTERNATIONAL** APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

HOLME PATENT A/S Vesterbrogade 20 DK-1620 Copenhagen V DANEMARK

Holme ratent

Date of mailing (day/month/year) 27 January 2000 (27.01.00)

Applicant's or agent's file reference

19803003PCT

IMPORTANT NOTICE

International application No. PCT/DK99/00401

International filing date (day/month/year) 13 July 1999 (13.07.99)

Priority date (day/month/year) 14 July 1998 (14.07.98)

Applicant

M & J FIBRETECH A/S et al.

Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice: AU,CN,EP,IL,JP,KP,KR,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE,AL,AM,AP,AT,AZ,BA,BB,BG,BR,BY,CA,CH,CU,CZ,DE,DK,EA,EE,ES,FI,GB,GD,GE,GH,GM,HR, HU,ID,IN,IS,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MD,MG,MK,MN,MW,MX,NO,NZ,OA,PL,PT,RO,RU, SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,UA,UG,UZ,VN,YU,ZA,ZW
The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the

applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 27 January 2000 (27.01.00) under No. WO 00/04232

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDERHEGARDING ENTRY INTO THE RATIONAL PRASE (ATTICE 22 OF ESTI))

If the applicant wishes to proceed with the international application in the national phase, or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

J. Zahra

Telephone No. (41-22) 338.83.38

Facsimile No. (41-22) 740.14.35

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: D21H 27/00, D04H 1/72
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: B27N, D01G, D04H, D21H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCL	C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.					
X	WO 8703626 A1 (SUNDS DEFIBRATOR AKTIEBOLAG), 18 June 1987 (18.06.87), page 4, figure 2	1-10				
A	WO 9105109 A1 (AHLSTRAND, OVE), 18 April 1991 (18.04.91), claim 1, abstract	1-10				
A	US 4494278 A (KARL K.K. KROYER ET AL), 22 January 1985 (22.01.85), column 3, line 61 - column 4, line 2, fig 1 and 4	1-10				
A	US 3581706 A (TORBEN BORUP RASMUSSEN), 1 June 1971 (01.06.71), column 3, line 16 - column 4, line 4	1-10				

"A"	"A" document defining the general state of the art which is not considered to be of particular relevance		the principle or theory underlying the invention	
"E"	"E" erlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		document of particular relevance: the claimed invention cannot be	
"L"			considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combinat being obvious to a person skilled in the art	
"O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than		•		
	the priority date claimed		document member of the same patent family	
Date	Date of the actual completion of the international search		of mailing of the international search report	
3_	November 1999		1 1 -11- 1999	
Nan	ne and mailing address of the ISA/	Authorized officer		
Swe	edish Patent Office			
Вох	Box 5055, S-102 42 STOCKHOLM		Barbro Nilsson/EÖ	
Fac	simile No. +46 8 666 02 86	Telephone No. + 46 8 782 25 00		
orm	PCT/ISA/210 (second sheet) (July 1992)	· · · · · · · · · · · · · · · · · · ·		

See patent family annex.

later document published after the international filing date or priority

Special categories of cited documents:

Further documents are listed in the continuation of Box C.

INTERNATIONAL ARCH REPORT Information on pater amily members

Internal al application No.
28/09/99 PCT/DK 99/00401

		28/09/99 PC	/DK 99/00401
Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 8703626 A1	18/06/87	AT 65269 T AU 592609 B AU 6726787 A CA 1291357 A EP 0287566 A,B FI 88179 B FI 882814 A JP 7026255 B JP 63502676 T NZ 218562 A SE 457644 B,C SE 8505918 A US 4921650 A	15/08/91 18/01/90 30/06/87 29/10/91 26/10/88 31/12/92 13/06/88 22/03/95 06/10/88 30/03/88 16/01/89 14/06/87 01/05/90
WO 9105109 A1	18/04/91	AU 6506090 A SE 464475 B,C SE 8903189 A	28/04/91 29/04/91 29/03/91
US 4494278 A	22/01/85	AU 534914 B AU 4141278 A BE 871844 A CA 1104786 A DE 2848459 A,C DK 495677 A ES 474880 A FI 62386 B,C FI 783407 A FR 2407992 A,B GB 2008638 A,B IE 47578 B IT 1100937 B IT 7829568 D JP 1353136 C JP 54077770 A JP 61020651 B LU 80484 A NL 187128 B,C NL 7811020 A NZ 188848 A SE 430177 B,C SE 7811497 A	23/02/84 17/05/79 01/03/79 14/07/81 07/06/79 09/05/79 01/04/79 31/08/82 09/05/79 01/06/79 02/05/84 28/09/85 00/00/00 11/12/86 21/06/79 23/05/86 22/03/79 02/01/91 10/05/79 16/03/82 24/10/83 08/05/79

INTERNATIONAL SEARCH REPORT

Information on paters amily members

al application No. 28/09/99 PCT/DK 99/00401

	atent document I in search repo		Publication date		Patent family member(s)	Publication date
US	3581706	A	01/06/71	BE	723860 A	16/04/69
				DE	18 0 7411 A,B	15/01/70
				DK	147542 B,C	24/09/84
				DK	321578 A	18/07/78
				ES	360148 A	01/07/70
				FI	48614 B	31/07/74
				FR	1592252 A	11/05/70
				GB	1207556 A	07/10/70
				JP	54031522 B	08/10/79
				NL	173191 B,C	18/07/83
				NL	6816053 A	19/05/69
				NL	78 0 0367 A	28/04/78
				SE	339994 B	01/11/71

Form PCT/ISA/210 (patent family annex) (July 1992)

REC'D	2 4	OCT	2000
WIPO			: 10.1

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

15

(PCT Article 36 and Rule 70)

Applicant's	or age	nt's file reference		Car Nation	ation of Transmittal of International	-
1980300	•		FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
Internationa	al appli	cation No.	International filing date (day/month	n/year)	Priority date (day/month/year)	
PCT/DK9	99/00	401	13/07/1999		14/07/1998	
Internationa D21H27/		nt Classification (IPC) or na	tional classification and IPC			
Applicant M&J FIB	RETE	ECH A/S et al.				
		ational preliminary exam smitted to the applicant a		by this Inte	rnational Preliminary Examining Au	ıthority
2. This f	REPO	RT consists of a total of	6 sheets, including this cover s	heet.		ı
b	een a	mended and are the bas	d by ANNEXES, i.e. sheets of the sis for this report and/or sheets of 07 of the Administrative Instructi	ontaining re	n, claims and/or drawings which had ctifications made before this Author de PCT).	ve rity
These	e ann	exes consist of a total of	12 sheets.			
3. This r	eport	contains indications rela	ating to the following items:			•
ı	\boxtimes	Basis of the report				
11		Priority				
111		Non-establishment of o	ppinion with regard to novelty, in	entive step	and industrial applicability	
١٧		Lack of unity of invention	on			
V	×		nder Article 35(2) with regard to ons suporting such statement	novelty, inve	entive step or industrial applicability;	;
VI		Certain documents cite	ed			
VII		Certain defects in the in	nternational application			
VIII	VIII 🗵 Certain observations on the international application					
Date of sub	Date of submission of the demand Date of completion of this report					
11/02/20	11/02/2000 1 8. 10. 00		1 8. 10. 00			
	exam Euro	g address of the internationa ning authority: pean Patent Office		zed officer	(digental line)	OES MICHURA
	D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Maremonti, M			OHAC STATE THE		
Fax: +49 89 2399 - 4465 Telephone No. +49 89 2399 8440						



International application No. PCT/DK99/00401

1/1

This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):
 Description, pages:
 1-10 as received on 18/07/2000 with letter of 14/07/2000

Claims, No.:

1-10 as received on 18/07/2000 with letter of 14/07/2000

Drawings, sheets:

2. The amendments have resulted in the cancellation of:

as published

☐ the description, pages:☐ the claims, Nos.:☐ the drawings, sheets:

3. A This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

see separate sheet

4. Additional observations, if necessary:





International application No. PCT/DK99/00401

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes:

Claims 1-10

No: Claims

Inventive step (IS)

Yes: Claims

No:

Claims 1-10

Industrial applicability (IA)

Yes:

Claims 1-10

- '

No: Claims

2. Citations and explanations

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item I Basis of the report

The description of the present application was completely reworded by introducing 1. several replacement terms, expressions and statements that were not present in the application, as originally filed. These amendments introduce, therefore, subject-matter that extends beyond the content of the application, as originally filed, contrary to the provisions of Article 34(2)b) PCT. As an example, the term "well-defibrated" was replaced throughout the description by the term "wellopened", which is not regarded as to be equivalent for a person skilled in the art. Additionally, as far as the citation of document WO 8703626 A1 is concerned, only the statements introduced on page 3, lines 9-15, are admissible as factual citation of the prior art. All other comments introduced from page 3, line 17 to page 4, line 16 cannot be admitted.

All amendments to the description but the above mentioned factual prior art citation were, hence, ignored in the establishment of the present examination report (Rule 70(2)c) PCT).

As far as the new set of claims is concerned, the term "well-opened" was introduced in claims 1, 2 and 4 to replace either the term "well-dissected" or the term "well-defibrated". Moreover, the term "nits-opener" was introduced in claims 4, 5, 8, 9 and 10 to replace the term "nits-defibrator". These replacement terms are not regarded as to be equivalent to the original terms. No basis for such amendments can be found in the application as filed and therefore, these amendments are considered to introduce subject-matter that extends beyond the content of the application, as originally filed, contrary to the provisions of Article 34(2)b) PCT. As a consequence, these amendments were ignored in the establishment of the present examination report (Rule 70(2)c) PCT).

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents: 1.

D1: WO 8703626 A1 D2: US-A-3 581 706

The present application does not meet the requirements of the PCT, because the 2. subject-matter of claim 1 does not involve an inventive step in the sense of Article 33(3) PCT. Indeed document D1, which is considered to represent the most relevant state of the art, discloses (cf. Figure 2) a plant suitable for producing a nonwoven web of fibres, comprising: a defibrator (21), a forming head (1), which forms a fibre web on an endless forming wire (27) mainly running horizontally, a transport fan (25) for transporting defibrated fibre to said forming head (1) via an air duct (24), whereby nits are extracted from said forming head via a second air duct ((28)+(29)) and wherein the plant also includes a separator (23) connected to said second air duct, suitable for separating nits from fibres (cf. p. 4, l. 5-32). Therefore, the subject-matter of claim 1 differs from the plant of D1 only in that a second transport fan is present, in order to extract nits from the forming head.

In D1, this extraction is carried out by means of the same fan (25), which is adopted for transporting defibrated fibre to the forming head (cf. Figure 2). No particular technical effect can be seen, which derives from the use of two fans. Actually, the same effect, as in the present application, is obtained in D1 by using only one fan.

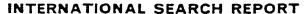
As a consequence, no inventive step can be acknowledged with respect to D1, as far as the subject-matter of independent claim 1 is concerned.

- Dependent claims 2-10 do not appear to contain any additional feature which, in 3. combination with the features of any claim to which they refer, meets the requirements of the PCT with respect to inventive step (Article 33(3) PCT). Indeed, all mentioned features are either known from D1 (cf. Figures 2 and 3 and p. 4, I. 5-p. 5, I. 7) or regarded as obvious design possibilities for a person skilled in the art. In particular, the presence of a nits defibrator, introduced in claim 4, is disclosed also in document D2 (cf. c. 3, l. 21-c. 4, l. 1).
- The industrial applicability of the subject-matter of all claims is beyond any doubt 4. (Articles 33(4) PCT).

Re Item VIII

Certain observations on the international application

- Independent claim 1 is reported in the description by adopting a different wording 1. (see p. 1, I. 3-9). In particular, it is omitted that a forming head is present for forming a fibre web, and the separator is not mentioned. This makes the present application unclear with respect to the subject-matter for which protection is sought (Article 6 PCT).
- Dependent claim 3 defines a "fourth" fan, whereas only two fans are introduced in 2. claim 1 to which claim 3 refers. Claim 10 should refer only to claims 4 and 5, where the nits defibrator was mentioned (Article 6 PCT).



International Application No PCT/SE86/00521

1. CLASSIFICATION OF SUBJECT MATTER (if several classification symbols apply, Indicate all) * According to International Patent Classification (IPC) or to both National Classification and IPC D 04 H 1/72, D 21 H 5/26, B 27 N 3/00 II. FIELDS SEARCHED Minimum Documentation Searched 7 Classification System Classification Symbols IPC 4 D 04 H 1/70-/74, 1/40, 1/00-/04; D 21 H 5/26; B 27 N 3/00-/04 US C1 <u>19</u>: 296-308, 161.1, 155-156.4, 144-149, 105; 28: 116-139; <u>65</u>: 4.4, 9; <u>425</u>: 80-83.4 Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched SE, NO, DK, FI classes as above III. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of Document, 11 with Indication, where appropriate, of the relevant passages 12 Relevant to Claim No. 13 Α DE, A, 1 802 161 (DOMTAR LTD) 19 June 1969 Α Derwent's abstract No. B5 085211/14, SU 1 110 845 Α EP, A1, O O4O 693 (RHEINHOLD & MAHLA GMBH) 2 December 1981 Special categories of cited documents: 10 later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the International filing date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family IV. CERTIFICATION Date of the Actual Completion of the International Search Date of Mailing of this International Search Report 1987 -02- 23 1987-02-17 International Searching Authority Signature of Authorized Officer Liisa Hyrkas wa Hylis Swedish Patent Office







PCT REQUEST

1/4

Original (for SUBMISSION) - printed on 13.07.1999 10.22.46 AM

19803003PCT

0	For receiving Office use only		
0-1	International Application No.	PCT/DK 99/00401	
0-2	International Filing Date		
0-3	Name of receiving Office and "PCT	13 JULY 1999	
0-3	International Application"	Patentdirektoratet 122	
	, , , , , , , , , , , , , , , , , , ,	Danish Patent Office	
	<u> </u>	PCT-International Application	
0-4	Form - PCT/RO/101 PCT Request	To time material approaches	
0-4-1	Prepared using	PCT-EASY Version 2.84	
		(updated 01.06.1999)	
0-5	Petition	(updated 01.00.1999)	
	The undersigned requests that the		
	present international application be		
	processed according to the Patent Cooperation Treaty		
0-6	Receiving Office (specified by the	Danish Patent Office (RO/DK)	
	applicant)	Danish Facent Office (RO/DK)	
0-7	Applicant's or agent's file reference	19803003PCT	
	Title of invention	NITS SEPARATOR	
II	Applicant		
II-1	This person is:	applicant only	
II-2	Applicant for	all designated States except US	
11-4	Name	M&J FIBRETECH A/S	
11-5	Address:	Vejlevej 3	
		DK-8700 Horsens	
		Denmark	
II-6	State of nationality	DK	
II-7	State of residence		
II-8	Telephone No.	DK	
II-9	Facsimile No.	no	
		no	
II-10	e-mail	no	
III-1 III-1-1	Applicant and/or inventor		
	This person is:	applicant and inventor	
III-1-2	Applicant for	US only	
III-1-4	Name (LAST, First)	SØRENSEN, Elmgaard, Birger	
III-1-5	Address:	Viemosevej 3	
		DK-7120 Vejle Ø	
		Denmark	
III-1-6	State of nationality	DK	
III-1-7	State of residence	DK	
	L	DIX	



19803003PCT

Original (for SUBMISSION) - printed on 13.07.1999 10.22.46 AM

IV-1	Agent or common representative; or				
	address for correspondence	·			
	The person identified below is	agent			
	hereby/has been appointed to act on				
	behalf of the applicant(s) before the competent International Authorities as:				
IV-1-1	Name	HOLME PATENT A/S			
IV-1-2	Address:	Vesterbrogade 20			
		DK-1620 Copenhagen V			
		Denmark			
IV-1-3	Telephone No.	+45 3324 2121			
IV-1-4	Facsimile No.	+45 3324 9121			
IV-1-5	e-mail	Holme@HolmePatent.dk			
V V-1	Designation of States Regional Patent				
V -1	(other kinds of protection or treatment, if	AP: GH GM KE LS MW SD SZ UG ZW and any			
	any, are specified between parentheses	other State which is a Contracting State			
	after the designation(s) concerned)	of the Harare Protocol and of the PCT			
		EA: AM AZ BY KG KZ MD RU TJ TM and any			
		other State which is a Contracting State			
		of the Eurasian Patent Convention and of			
		the PCT			
		EP: AT BE CH&LI CY DE DK ES FI FR GB GR			
		IE IT LU MC NL PT SE and any other State			
		which is a Contracting State of the			
		European Patent Convention and of the			
		PCT			
		OA: BF BJ CF CG CI CM GA GN GW ML MR NE			
		SN TD TG and any other State which is a			
		member State of OAPI and a Contracting			
		State of the PCT			
V-2	National Patent (other kinds of protection or treatment, if	AE AL AM AT AU AZ BA BB BG BR BY CA			
	any, are specified between parentheses	CH&LI CN CU CZ DE DK EE ES FI GB GD GE			
	after the designation(s) concerned)	GH GM HR HU ID IL IN IS JP KE KG KP KR			
		KZ LC LK LR LS LT LU LV MD MG MK MN MW			
		MX NO NZ PL PT RO RU SD SE SG SI SK SL			
		TJ TM TR TT UA UG US UZ VN YU ZA ZW			
V-5	Precautionary Designation Statement				
	In addition to the designations made under items V-1, V-2 and V-3, the				
	applicant also makes under Rule 4.9(b)				
	all designations which would be				
	permitted under the PCT except any designation(s) of the State(s) indicated				
	under item V-6 below. The applicant				
	declares that those additional				
	designations are subject to confirmation				
	and that any designation which is not confirmed before the expiration of 15				
	months from the priority date is to be				
	regarded as withdrawn by the applicant				
	at the expiration of that time limit.				



PCT REQUEST

19803003PCT

Original (for SUBMISSION) - printed on 13.07.1999 10.22.46 AM

3/4

V-6	Exclusion(s) from precautionary designations	NONE			
VI-1	Priority claim of earlier national application				
VI-1-1	Filing date	14 July 1998 (14.07.	1998)		
VI-1-2	Number	PA 1998 00933	•		
VI-1-3	Country	DK			
VI-2	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1			
VII-1	International Searching Authority Chosen	Swedish Patent Offic	e (ISA/SE)		
VII-2	Request to use results of earlier search; reference to that search				
VII-2-1	Date	17 February 1999 (17	03 1999)		
VII-2-2	Number	DK 98/00123	.02.1999)		
VII-2-3	Country (or regional Office)	SE			
VIII	Check list	number of sheets	electronic file(s) attached		
VIII-1	Request	4	_		
VIII-2	Description	8	_		
VIII-3	Claims	2	_		
VIII-4	Abstract	1	19803003pct_abstract.txt		
VIII-5	Drawings	1	-		
VIII-7	TOTAL	16			
	Accompanying items	paper document(s) attached	electronic file(s) attached		
VIII-8	Fee calculation sheet	✓	-		
VIII-16	PCT-EASY diskette	-	diskette		
VIII-17	Other (specified):	Copy of ITS	-		
VIII-18	Figure of the drawings which should accompany the abstract	1			
VIII-19	Language of filing of the international application	Danish			
IX-1	Signature of applicant or agent	& 4-ton			
IX-1-1	Name	HOLME PATENT A/S			
IX-1-2	Name of signatory	Edvard Holme			

FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	RO/DK	1 3 JUL 1999	(13.07.1999)
10-2	Drawings:			
10-2-1	Received			
10-2-2	Not received			
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application			







PCT REQUEST

Original (for SUBMISSION) - printed on 13.07.1999 10.22.46 AM

19803003PCT

10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/SE
10-6	Transmittal of search copy delayed until search fee is paid	

FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by			10-00-00	<u>7</u>
_	the International Bureau	05	Alighet 1999	0 5, 08, 99	<u>) </u>
				 	_

INTERNATIONAL SEARCH REPORT

International Application No PCT/SE 90/00621

I. CL	ASSIFICATIO	N OF SUBJECT MATTER (If several s	lassification symbols apply, indicate all) 6	732 30700021		
Accor	rding to Interna	stional Patent Classification (IPC) or to b	poth National Classification and inc			
IPC5	: D 21 H	27/00	mational classification and IPC			
				· ·		
II. FIE	LDS SEARCH			· ·		
Claratel		Minimum Doc	cumentation Searched 7			
Classifi	cation System		Classification Symbols			
			•			
TDCF						
IPC5		B 27 N; D 04 H; D 21 E	B; D 21 F; D 21 H			
		Documentation Searched	other than Minimum Documentation			
<u> </u>		to the Extent that such Docur	ments are included in Fields Searched			
1						
SE DE	ET NO -	January and the second				
JE, DR	,FI,NU C	lasses as above				
III. DO	CUMENTS CO	NSIDERED TO BE RELEVANT				
Category	Citatio	on of Document, ¹¹ with Indication, where	appropriate, of the relevant presence 12	10-1		
A		892295 (T.M.M. (RESEAR		Relevant to Claim No.13		
1	28	March 1962, see figure	CL) CIWIIEN)	1-14		
	cl:	aim 1	2 ;			
1			_			
	ł		_			
A	EP. A1.	, 0032044 (KIMBERLY-CLAF	RK CORDODATIONS			
	15	July 1981, see page 20	- nago 21:	1-14		
1	fic	jures 1,3,11	page 21,			
	1		_			
1			·			
Α	EP, A2,	0093585 (CHICOPEE) 9 N	November 1983	1 14		
	see	figures 1,2; claims 1	-4	1-14		
1	1					
l .	1					
Α	EP, A2,	0190634 (KIMBERLY-CLAR	K CORPORATION)	1-14		
1	13	August 1986, see figure	1:	1-14		
1	cla	ims 1-29	,			
l						
	1					
			ĺ			
İ				i		
	1		}			
	1					
	1					
* Specia	al categories	of cited documents: 10				
"A" doc	ument defining	g the general state of the art which is no of particular relevance	"T" tater document published after the or priority date and not in conflict cited to understand the principle of invention	international filing date		
CON	isidered to be d	of particular relevance	cited to understand the principle of invention	or theory underlying the		
lilin	ng date	but published on or after the internations	"X" document of particular relevance.	the claimed invention		
"L" doc	ument which m	nay throw doubts on priority claim(s) or establish the publication date of another	"X" document of particular relevance, cannot be considered novel or can involve an inventive step	not be considered to		
	01 011101 2	bacies sesson (ms specialed)	"Y" document of particular relevance,	the claimed invention		
"O" doct	ument referring er means	g to an oral disclosure, use, exhibition o	"Y" document of particular relevance, cannot be considered to involve ar document is combined with one or ments, such combination being ob in the art.	more other such docu-		
"P" docu	ument publishe	ed prior to the international filing date by rity date claimed	in the art.	to 2 person agricul		
IV. CERTIF	FICATION	nty date claimed	"&" document member of the same pai	ent family		
		tion of the International Search	Date of Mallin to 1			
			Date of Mailing of this International Sear	ch Report		
taru ne	cember 1	990	1990 -12- 2 0	ł		
Internationa	ternational Country and the					
	•	•	Signature of Authorized Officer			
	CMEDIC	U DATENT OFFICE	Corder Milan			
orm PCT/ISA	V210 (second	H PATENT OFFICE	Barbro Nilsson			

International Application No. PCT/SE 90/00621

Category *	Citation of Document, with indication, where appropriate, of the relevant passages	
	where appropriate, or the relevant passages	Relevant to Claim N
A	EP, A1, 0224892 (FLÄKT AKTIEBOLAG)	1.14
	1 June 1987. See abstract.	1-14
	figure 1	
4	US. A. 4701294 (RADWANSKI ET AL)	
	US, A, 4701294 (RADWANSKI ET AL) 20 October 1987, see abstract;	1-14
	figure 1	
- 4		
	·	
	-	
İ		
	·	
.		
	·	
1		
PCT/ISA/	210 (extra sheet) (January 1985)	

ANNEX TO THE INTERNATIONAL SEARCH REPORT ON INTERNATIONAL PATENT APPLICATION NO.PCT/SE 90/00621

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the Swedish Patent Office EDP file on 90-11-01 The Swedish Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)		Publication date	
GB-A- 892295	62-03-28	NONE			
EP-A1- 0032044	81-07-15	AU-B- AU-D- CA-A- JP-A- US-A- CA-A- US-A- US-A-	537637 6558280 1156813 56101962 4375447 1149572 4366111 1156814 4375448	84-07-05 81-06-25 83-11-15 81-08-14 83-03-01 83-07-12 82-12-28 83-11-15 83-03-01	
EP-A2- 0093585	83-11-09	AU-B- AU-D- CA-A- GB-A-B- JP-A- US-A-	557362 1404483 1212509 2118984 58197362 4475271	86-12-18 83-11-03 86-10-14 83-11-09 83-11-17 84-10-09	
EP-A2- 0190634	86-08-13	CA-A- JP-A- US-A-	1247584 61245388 4650127	88-12-27 86-10-31 87-03-17	
EP-A1- 0224892	87-06-10	CA-A- SE-B-C- SE-A- US-A-	1264518 457729 8505726 4712277	90-01-23 89-01-23 87-06-05 87-12-15	
US-A- 4701294	87-10-20	NONE			

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
ΑT	Austria	FR	France	LU	Luxembourg	SN	Senegal
ΑU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	ТJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav	TM	Turkmenistan
BF	Burkina Faso	GR	Greece		Republic of Macedonia	TR	Turkey
BG	Bulgaria	HU	Hungary	ML	Mali	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MN	Mongolia	UA	Ukraine
BR	Brazil	IL	Israel	MR	Mauritania	UG	Uganda
BY	Belarus	IS	Iceland	MW	Malawi	US	United States of America
CA	Canada	IT	Italy	MX	Mexico	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NE	Niger	VN	Viet Nam
CG	Congo	KE	Kenya	NL	Netherlands	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NO	Norway	zw	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's	NZ	New Zealand		
CM	Cameroon		Republic of Korea	PL	Poland		
CN	China	KR	Republic of Korea	PT	Portugal		
CU	Cuba	KZ	Kazakstan	RO	Romania		
CZ	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
DE	Germany	LI	Liechtenstein	SD	Sudan		
DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		